

IN THE CLAIMS

Please amend Claims 10, 12, 13, 18, 21 and 22, to read as follows.

1-9. (Canceled)

10. (Currently Amended) A print head substrate on which is provided a print head assembly, the assembly comprising:

an array of printing elements divided into a plurality of groups of printing elements;

a driving circuit for selectively driving the printing elements;

a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven in each group; and

data supply means for supplying driving data to the driving circuit,

wherein the selection circuit has common lines coupled to the plurality of groups of printing elements of the array for selecting a printing element to be driven in each group, and

wherein the data supply means comprises a plurality of ~~data supply circuits~~ shift registers, each arranged to supply data for a corresponding set of the printing elements, the ~~data supply circuits~~ shift registers being spaced apart in the direction of the array with each ~~data supply circuit~~ shift register being arranged adjacent to the corresponding set of printing elements.

11. (Previously Presented) A print head substrate according to claim 10, wherein a plurality of the print head assemblies are provided on the substrate.

12. (Currently Amended) A print head substrate according to claim 10, wherein the plurality of shift registers receive clock and data signals, and the data supply ~~circuits include a plurality of shift registers for receiving clock and data signals; means further~~ comprises a plurality of latches for latching output signals from the shift registers, and AND circuits for deriving a logical product of outputs from the latches and a driving signal.

13. (Currently Amended) A print head substrate according to claim 10, wherein there are two ~~data supply circuits~~ shift registers arranged at respective ends of the printing element array.

14. (Previously Presented) A print head substrate according to claim 10, wherein the array of printing elements extends alongside an ink supply port.

15. (Previously Presented) A print head substrate according to claim 12, wherein the array of printing elements extends alongside an ink supply port.

16. (Previously Presented) A print head substrate according to claim 10, wherein said selection circuit is arranged at one end of the printing element array.

17. (Previously Presented) A print head substrate according to claim 10, wherein said substrate is a rectangle and the printing elements array extends along the length of the rectangle.

18. (Currently Amended) A print head comprising a print head substrate on which is provided a print head assembly, the assembly comprising:

an array of printing elements divided into a plurality of groups of printing elements;

a driving circuit for selectively driving the printing elements;

a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven in each group; and

data supply means for supplying driving data to the driving circuit,

wherein the selection circuit has common lines coupled to the plurality of groups of printing elements of the array for selecting a printing element to be driven in each group, and

wherein the data supply means comprises a plurality of ~~data supply circuits~~ shift registers, each arranged to supply data for a corresponding set of the printing elements, the ~~data supply circuits~~ shift registers being spaced apart in the direction of the array with each ~~data supply circuit~~ shift register being arranged adjacent to the corresponding set of printing elements.

19. (Previously Presented) A print head according to claim 18, wherein the print head is an ink jet head for printing data by discharging ink.

20. (Previously Presented) A print head according to claim 19, wherein the print head comprises electrothermal transducing means for generating thermal energy to cause ink discharge.

21. (Currently Amended) A print head cartridge comprising:
a print head having a print head substrate on which is provided a print head assembly, the assembly comprising[[[,] an array of printing elements divided into a plurality of groups of printing elements, a driving circuit for selectively driving the printing elements, a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven from each group, and data supply means for supplying driving data to the driving circuit, wherein the selection circuit has common lines coupled to the plurality of groups of printing elements of the array for selecting a printing element to be driven from each group, and wherein the data supply means comprises a plurality of ~~data supply circuits~~ shift registers, each arranged to supply data for a corresponding set of the printing elements, the ~~data supply circuits~~ shift registers being spaced apart in the direction of the printing element array with each ~~data supply circuit~~ shift register being arranged adjacent to the corresponding set of printing elements; and
an ink tank for storing ink to be supplied to the print head.

22. (Currently Amended) A printing apparatus for printing data, the apparatus comprising:

a print head having a print head substrate on which is provided a print head assembly, the assembly comprising an array of printing elements divided into a plurality of groups of printing elements, a driving circuit for selectively driving the printing elements, a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven from each group, and data supply means for supplying driving data to the driving circuit, wherein the selection circuit has common lines coupled to the plurality of groups of printing elements of the array for selecting a printing element to be driven from each group, and wherein the data supply means comprises a plurality of ~~data supply circuits~~ shift registers, each arranged to supply data for a corresponding set of the printing elements, the ~~data supply circuits~~ shift registers being spaced apart in the direction of the printing element array with each ~~data supply circuit~~ shift register being arranged adjacent to the corresponding set of printing elements; and

driving data generation means for generating a data signal for each path of the ~~data supply circuits~~ shift registers.